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NAME OF MAJOR COMPONENT	PART OR LO	WEST SUBA	SSEMBLY	£ 3	PART NO.	& MODEL	OR TYPE
TITLE OF PROPOSAL: Install Reference	New Automati e System		Control		tude Hea	ding	property that gar i manager
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# NATURE OF PROPOSAL:

A. Install ISi Automatic Flight Control System (AFCS) and Attitude Heading Reference System (AHRS) components as listed below:

COMPONENT TITLE	COMPONENT P/N
NOSE SECTION:	
AFCS Computer Trim Coupler Rate Gyro Package (3 Each 2157-30AK-1 or 3 Each 2152-30V-1 Rate Gyro* are included)	11CE019A 1478C 121296-01
Mach Control* Two Gyro Platform AHRS Amplifier & Power Supply AHRS Adapter AHRS Power Converter Control Relays	1420H-01 2171AB 3311H 6502F 1601F

### COCKPIT SEXTION:

Support Bracketry

AFCS Controller	llcc108A
AFCS Gain Pots (3 Each)	ALCO LUCK
AFCS Auto Trim c/o Switch & Light	
AFCS Auto Trim Test Switch	
AFCS Pitch Trim Indicators AFCS Roll Trim Indicators AHRS Controller	707502-03 Series Qh18-5 707502-01 Series Qh18-h
Circuit Breakers (2 Each)	3804G
AHRS Power Control Switch	Micro 6ET1-T
Bearing Distance Heading Indicator	21,871,5 Mada 7 7762 m 07
Circuit Components Required for new Inver	rter (WSPO ONLY)
Control	word dam)
Support Bracketry	

\*See Footnote on Page 3

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### NATURE OF PROPOSAL: (Cont'd)

Support Bracketry & Linkage

COMPONENT TITLE		COMPONENT P/N	
Q-BAY SECTION:			
AHRS Rate Switch Gyro* 750 VA Inverter (WSPO ONLY) Various Circuit Hardware Required f Inverter Circuit (WSPO ONLY) Support Bracketry	or	2159C-01 MGH182-100	
FUSELAGE AFT OF Q-BAY AND OVER FRONT W	HERL WELL		
Pitch Servo Yaw Servo Pitch Capstan* Yaw Capstan*		56004-000 56004-000 913B-4-01 913B-4-01	
FRONT WHEEL WELL:			
Roll Servo Roll Capstans		56004-000 913B-4-01	
AFT TAIL SECTION:		· · · · · · · · · · · · · · · · · · ·	
Pitch Followup Yaw Followup Support Bracketry & Linkage		4000A 4000A	
RIGHT WING:			
Roll Followup		4000A	

<sup>\*</sup>This part will be removed from the aircraft, overhauled and/or modified as required to return the component to a "like new" condition. After overhaul or modification, the part shall have a "-01" affixed to the existing part number. The trim indicators will be identified with a "-1" and "-9" in lies of the "-01" number.

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## NATURE OF PROPOSAL: (Cont'd)

### LEFT WING

Roll Followup Flux Valves Support Bracketry Followup Linkage

4000A 664543-01 Type C2

# VARIOUS CIRCUIT COMPONENTS

Connectors (64)
Relays (9)
Switches (4)
Potentiometers (3)
Circuit Breakers (8)

- B. WIRING TO BE INSTALLED.
  - a. Nose Section complete.
  - b. Cockpit complete (in conjunction with Cockpit Update LAC ECF 164).
  - c. Servo wiring to fuselage over, and in wheel well.
  - d. Followup wiring to each wing and to tail section.
  - e. Flux Valve wiring from Left Wing disconnect to Nose Section.
  - f. Q-Bay wiring for Inverter Installation (WSPO ONLY).

# REASON FOR PROPOSAL:

To provide an Automatic Flight Control System and Attitude Heading Reference System that:

- a. is designed and manufactured in accordance with current state of the art practice.
- b. has performance characteristics compatible with the required aircraft mission profile.
- c. provides increased system and component reliability.

## \*See Footnote on Page 3

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### DISPOSITION OF SPARES AFFECTED:

After all Articles have been modified the following Components will have no further requirement on this aircraft. A suitable quantity of Spare Components should be maintained until all aircraft have been turned around.

COMPONENT TITLE		PART NUMBER	
Controller Servo (3 Each) Followup Followup (3 Each) Mach Amplifier Trim Control Elapsed Time Indicator A/P Control Gyro  500 VA Inverter (WSPO ONLY) Compass Gyro & Amplifier Control Panel Transformer Indicator	(Project) (WSPO)	996H 118BFX or 118BF 911A-1 11450D-1 119611-01-01 113459-02 Type MH-1 114705-02R345-2 114705-02R338-2 R419-2 2156A & 3303A 3801A 1611A 1D250A/ARN	or

## VARIOUS CIRCUIT COMPONENTS

Resistors (6)
Capacitors (5)
Filters (3)
Connectors (6h)
Relays (12)
Switches (7)
Potentiometers (8)
Circuit Breakers (7)

#### WEIGHT & HALANCE:

There is no increase in weight. However, the equipment is now installed in the nose of the aircraft and moves the C.G. FORWARD. To maintain a zero C.G. shift (ten) 10 additional pounds of ballast must be installed at F. S. 673.

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